

Ship June 30 or SOONER

Work Order ID 70914

Friday, June 17, 2011 7:47:53 AM



Page 1

Item ID: D412-702-021

Accept



Setup Start



Revision ID: U/R

Stop



Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 6/29/2011 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: W Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
N/A	Rev N/A								

100



DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile and create labels per PPP D412-702-021 CHG003

0.00

0.00

8/10/12/23

Hjdar BG 11-6-20

110



Packaging

Packaging

Pick Kit

Memo

0.00

0.00

6/21/10 ①

120



QC

Quality Control

QC4- 100% Inspect kits for completeness

Memo

0.00

0.00

5/10/12/23

②

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Item ID: D412-702-021

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Start Date: 6/17/2011 Start Qty: 1.00



Cust Item ID:

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-702-021 Location: _____								
		NAVC							
140		0.00							
	QC21- Final Inspection - Work Order Release								
QC	Memo	0.00							
Quality Control									

P-4/8/23 (1)

11/6/23. JG

cmf

11-06-23

Picklist Print

Friday, June 17, 2011 7:47:49 AM

Page 1

Work Order ID: 70914

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011

Required Date: 6/29/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM
 IPP Rev:C 06.04.03 As per DSI9324 JLM
 IPP rev D 06.12.14 per ecn 871 EC
 IPP Rev:E 07-03-14 As per DSI 9351 JLM
 IPP Rev:F 07-07-28 As per Rev E JLM Verified By:ec IPP Rev.G
 11.05.31 DSI 9559 EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4-13A Bolt		Purchased	No			120	Each	294.0000	4	4			
-----------------	--	-----------	----	--	--	-----	------	----------	---	---	--	--	--

Location Loc Qty Loc Code

ST357 294
 117962 294

AN4-20A Bolt		Purchased	No			120	Each	588.0000	8	8			
-----------------	--	-----------	----	--	--	-----	------	----------	---	---	--	--	--

Location Loc Qty Loc Code

ST359 588
 115936 88
 116419 200
 117514 300

AN4-5A Bolt		Purchased	No			120	Each	266.0000	4	4			
----------------	--	-----------	----	--	--	-----	------	----------	---	---	--	--	--

Location Loc Qty Loc Code

ST355 200
 117508 200
 ST356 66
 116191 16
 116549 50

116191

Picklist Print

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Work Order ID: 70914

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011

Required Date: 6/29/2011

Start Qty: 1.00

Required Qty: 1.00

AN960JD416 NAS1149D0463L Purchased No

120 Each

0.0000

20 20

Washer

D3195-041

Manufactured No

120 Each

6.0000

2 2

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

6

70146

6

D3195-043

Manufactured No

120 Each

2.0000

2 2

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

2

68988

2

D3196-1

Manufactured No

120 Each

2.0000

1 1

Bar

Location

Loc Qty

Loc Code

ST260

2

69326

2

D3196-3

Manufactured No

120 Each

1.0000

1 1

Bar

Location

Loc Qty

Loc Code

ST260

1

67794

1

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Shop Packet Print

Page 2

Picklist Print

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Page 3

Work Order ID: 70914

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011

Required Date: 6/29/2011

Start Qty: 1.00

Required Qty: 1.00

D3196-4 Manufactured No

120

Each

2.0000

1



Bar

Location

Loc Qty

Loc Code

ST260

2

67740

2

120

Each

4.0000

2

D3197-041

Manufactured No



Bar Assembly

Location

Loc Qty

Loc Code

ST260

4

70148

4

120

Each

5.0000

4

D3198-1

Manufactured No



Fitting

Location

Loc Qty

Loc Code

ST246A

5

70149

5

120

Each

2.0000

2

D3268-1

Manufactured No



Placard

Location

Loc Qty

Loc Code

ST246A

2

64841

2

120

Each

12.0000

2

D3546-1

Manufactured No



Clip

Location

Loc Qty

Loc Code

ST245

12

70150

12

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Shop Packet Print

Page 3

Picklist Print

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Work Order ID: 70914

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011

Required Date: 6/29/2011

Start Qty: 1.00

Required Qty: 1.00

D3551-11 Manufactured No

120 Each

4.0000

13 13



Hook and Loop Tie

Location

Loc Qty

Loc Code

ST246A

4

68427

4

120 Each

1.0000

1

1

D412-702-069 Manufactured No



Grommet

Location

Loc Qty

Loc Code

FG122

1

62206

1

120 Each

4.0000

9

9

D4387-041 Manufactured No



Harness Assembly

Location

Loc Qty

Loc Code

ST263

4

70759

4

120 Each

24.0000

4

4

D4387-043 Manufactured No



Harness Assembly

Location

Loc Qty

Loc Code

ST263

24

70054

12

70056

12

68427x4 JB
70918 9x

JB

62206
70709

JB 11/06/17

70054

Picklist Print

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Work Order ID: 70914

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 6/17/2011

Required Date: 6/29/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

120

Each

5,134.000

12

12

✓

Nut

Location

Loc Qty

Loc Code

ST300

5134

117441

2840

117601

794

117885

1500

117441

MS24694-S152

Purchased

No

120

Each

53.0000

8

8

✓

Screw

Location

Loc Qty

Loc Code

ST289A

53

116440

53

116440

MS24694-S154

Purchased

No

120

Each

42.0000

8

8

✓

SCREW

Location

Loc Qty

Loc Code

ST290

42

116328

8

117601

34

117601

REFERENCE ONLY

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1					D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

REFERENCE ONLY S DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		
	D412-702-029		
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent






Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD	
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